

January 04, 2017

David Pluhar  
Civil & Environmental Consultants  
4848 Park 370 Blvd.  
Suite F  
Hazelwood, MO 63042  
TEL: (314) 656-4566  
FAX: (314) 656-4595



**RE:** Huster Road 120-678

**WorkOrder:** 16121661

Dear David Pluhar:

TEKLAB, INC received 5 samples on 12/28/2016 3:35:00 PM for the analysis presented in the following report.

Samples are analyzed on an as received basis unless otherwise requested and documented. The sample results contained in this report relate only to the requested analytes of interest as directed on the chain of custody. NELAP accredited fields of testing are indicated by the letters NELAP under the Certification column. Unless otherwise documented within this report, Teklab Inc. analyzes samples utilizing the most current methods in compliance with 40CFR. All tests are performed in the Collinsville, IL laboratory unless otherwise noted in the Case Narrative.

All quality control criteria applicable to the test methods employed for this project have been satisfactorily met and are in accordance with NELAP except where noted. The following report shall not be reproduced, except in full, without the written approval of Teklab, Inc.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,



Michael L. Austin  
Project Manager  
(618)344-1004 ex 16  
[MAustin@teklabinc.com](mailto:MAustin@teklabinc.com)

**Client:** Civil & Environmental Consultants

**Work Order:** 16121661

**Client Project:** Huster Road 120-678

**Report Date:** 04-Jan-17

---

**This reporting package includes the following:**

Cover Letter	1
Report Contents	2
Definitions	3
Case Narrative	4
Laboratory Results	5
Sample Summary	20
Dates Report	21
Quality Control Results	22
Receiving Check List	32
Chain of Custody	Appended

## Definitions

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants

**Work Order:** 16121661

**Client Project:** Huster Road 120-678

**Report Date:** 04-Jan-17

### Abbr Definition

CCV Continuing calibration verification is a check of a standard to determine the state of calibration of an instrument between recalibration.

DF Dilution factor is the dilution performed during analysis only and does not take into account any dilutions made during sample preparation. The reported result is final and includes all dilutions factors.

DNI Did not ignite

DUP Laboratory duplicate is an aliquot of a sample taken from the same container under laboratory conditions for independent processing and analysis independently of the original aliquot.

ICV Initial calibration verification is a check of a standard to determine the state of calibration of an instrument before sample analysis is initiated.

IDPH IL Dept. of Public Health

LCS Laboratory control sample, spiked with verified known amounts of analytes, is analyzed exactly like a sample to establish intra-laboratory or analyst specific precision and bias or to assess the performance of all or a portion of the measurement system. The acceptable recovery range is in the QC Package (provided upon request).

LCSD Laboratory control sample duplicate is a replicate laboratory control sample that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MBLK Method blank is a sample of a matrix similar to the batch of associated sample (when available) that is free from the analytes of interest and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedures, and in which no target analytes or interferences should present at concentrations that impact the analytical results for sample analyses.

MDL Method detection limit means the minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero.

MS Matrix spike is an aliquot of matrix fortified (spiked) with known quantities of specific analytes that is subjected to the entire analytical procedures in order to determine the effect of the matrix on an approved test method's recovery system. The acceptable recovery range is listed in the QC Package (provided upon request).

MSD Matrix spike duplicate means a replicate matrix spike that is prepared and analyzed in order to determine the precision of the approved test method. The acceptable recovery range is listed in the QC Package (provided upon request).

MW Molecular weight

ND Not Detected at the Reporting Limit

NELAP NELAP Accredited

PQL Practical quantitation limit means the lowest level that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operation conditions. The acceptable recovery range is listed in the QC Package (provided upon request).

RL The reporting limit the lowest level that the data is displayed in the final report. The reporting limit may vary according to customer request or sample dilution. The reporting limit may not be less than the MDL.

RPD Relative percent difference is a calculated difference between two recoveries (ie. MS/MSD). The acceptable recovery limit is listed in the QC Package (provided upon request).

SPK The spike is a known mass of target analyte added to a blank sample or sub-sample; used to determine recovery deficiency or for other quality control purposes.

Surrogate Surrogates are compounds which are similar to the analytes of interest in chemical composition and behavior in the analytical process, but which are not normally found in environmental samples.

TIC Tentatively identified compound: Analytes tentatively identified in the sample by using a library search. Only results not in the calibration standard will be reported as tentatively identified compounds. Results for tentatively identified compounds that are not present in the calibration standard, but are assigned a specific chemical name based upon the library search, are calculated using total peak areas from reconstructed ion chromatograms and a response factor of one. The nearest Internal Standard is used for the calculation. The results of any TICs must be considered estimated, and are flagged with a "T". If the estimated result is above the calibration range it is flagged "ET"

TNTC Too numerous to count (> 200 CFU )

### Qualifiers

# - Unknown hydrocarbon

B - Analyte detected in associated Method Blank

E - Value above quantitation range

H - Holding times exceeded

I - Associated internal standard was outside method criteria

J - Analyte detected below quantitation limits

M - Manual Integration used to determine area response

ND - Not Detected at the Reporting Limit

R - RPD outside accepted recovery limits

S - Spike Recovery outside recovery limits

T - TIC(Tentatively identified compound)

X - Value exceeds Maximum Contaminant Level



## Case Narrative

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants

**Work Order:** 16121661

**Client Project:** Huster Road 120-678

**Report Date:** 04-Jan-17

**Cooler Receipt Temp:** 8.42 °C

### Locations and Accreditations

	<b>Collinsville</b>	<b>Springfield</b>	<b>Kansas City</b>	<b>Collinsville Air</b>
<b>Address</b>	5445 Horseshoe Lake Road Collinsville, IL 62234-7425	3920 Pintail Dr Springfield, IL 62711-9415	8421 Nieman Road Lenexa, KS 66214	5445 Horseshoe Lake Road Collinsville, IL 62234-7425
<b>Phone</b>	(618) 344-1004	(217) 698-1004	(913) 541-1998	(618) 344-1004
<b>Fax</b>	(618) 344-1005	(217) 698-1005	(913) 541-1998	(618) 344-1005
<b>Email</b>	jhriley@teklabinc.com	KKlostermann@teklabinc.com	Ryoungstrom@teklabinc.com	EHurley@teklabinc.com

<b>State</b>	<b>Dept</b>	<b>Cert #</b>	<b>NELAP</b>	<b>Exp Date</b>	<b>Lab</b>
Illinois	IEPA	100226	NELAP	1/31/2017	Collinsville
Kansas	KDHE	E-10374	NELAP	4/30/2017	Collinsville
Louisiana	LDEQ	166493	NELAP	6/30/2017	Collinsville
Louisiana	LDEQ	166578	NELAP	6/30/2017	Collinsville
Texas	TCEQ	T104704515-12-1	NELAP	7/31/2017	Collinsville
Arkansas	ADEQ	88-0966		3/14/2017	Collinsville
Illinois	IDPH	17584		5/31/2017	Collinsville
Kentucky	KDEP	98006		12/31/2017	Collinsville
Kentucky	UST	0073		1/31/2017	Collinsville
Missouri	MDNR	00930		5/31/2017	Collinsville
Missouri	MDNR	930		1/31/2017	Collinsville
Oklahoma	ODEQ	9978		8/31/2017	Collinsville

**Client:** Civil & Environmental Consultants  
**Client Project:** Huster Road 120-678

**Work Order:** 16121661  
**Report Date:** 04-Jan-17

**Lab ID:** 16121661-001

**Client Sample ID:** CW 4

**Matrix:** GROUNDWATER

**Collection Date:** 12/28/2016 9:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
1,1,1,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
1,1,2,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0		ND	µg/L	1	01/03/2017 13:16	125802
1,1,2-Trichloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
1,1-Dichloro-2-propanone		50.0		ND	µg/L	1	01/03/2017 13:16	125802
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
1,1-Dichloroethene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
1,1-Dichloropropene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
1,2,3-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
1,2,3-Trichloropropane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
1,2,3-Trimethylbenzene		5.0		ND	µg/L	1	01/03/2017 13:16	125802
1,2,4-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
1,2,4-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
1,2-Dibromo-3-chloropropane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
1,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
1,3,5-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
1,3-Dichloropropane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
1-Chlorobutane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
2,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
2-Butanone	NELAP	25.0		ND	µg/L	1	01/03/2017 13:16	125802
2-Chloroethyl vinyl ether	NELAP	20.0		ND	µg/L	1	01/03/2017 13:16	125802
2-Chlorotoluene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
2-Hexanone	NELAP	25.0		ND	µg/L	1	01/03/2017 13:16	125802
2-Nitropropane	NELAP	50.0		ND	µg/L	1	01/03/2017 13:16	125802
4-Chlorotoluene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
4-Methyl-2-pentanone	NELAP	25.0		ND	µg/L	1	01/03/2017 13:16	125802
Acetone	NELAP	25.0		ND	µg/L	1	01/03/2017 13:16	125802
Acetonitrile	NELAP	50.0		ND	µg/L	1	01/03/2017 13:16	125802
Acrolein	NELAP	100		ND	µg/L	1	01/03/2017 13:16	125802
Acrylonitrile	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
Allyl chloride	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
Benzene	NELAP	2.0		ND	µg/L	1	01/03/2017 13:16	125802
Bromobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
Bromochloromethane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
Bromodichloromethane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
Bromoform	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
Bromomethane	NELAP	10.0		ND	µg/L	1	01/03/2017 13:16	125802
Carbon disulfide	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
Carbon tetrachloride	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
Chlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
Chloroethane	NELAP	10.0		ND	µg/L	1	01/03/2017 13:16	125802

## Laboratory Results

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants  
**Client Project:** Huster Road 120-678

**Work Order:** 16121661  
**Report Date:** 04-Jan-17

**Lab ID:** 16121661-001

**Client Sample ID:** CW 4

**Matrix:** GROUNDWATER

**Collection Date:** 12/28/2016 9:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Chloroform	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
Chloromethane	NELAP	10.0		ND	µg/L	1	01/03/2017 13:16	125802
Chloroprene	NELAP	20.0		ND	µg/L	1	01/03/2017 13:16	125802
cis-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
cis-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
cis-1,4-Dichloro-2-butene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
Cyclohexanone		50.0		ND	µg/L	1	01/03/2017 13:16	125802
Dibromochloromethane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
Dibromomethane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
Dichlorodifluoromethane	NELAP	10.0		ND	µg/L	1	01/03/2017 13:16	125802
Ethyl acetate	NELAP	10.0		ND	µg/L	1	01/03/2017 13:16	125802
Ethyl ether	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
Ethyl methacrylate	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
Ethylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
Hexachlorobutadiene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
Hexachloroethane	NELAP	10.0		ND	µg/L	1	01/03/2017 13:16	125802
Iodomethane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
Isopropylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
Methacrylonitrile	NELAP	10.0		ND	µg/L	1	01/03/2017 13:16	125802
Methyl Methacrylate	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	01/03/2017 13:16	125802
Methylacrylate	NELAP	10.0		ND	µg/L	1	01/03/2017 13:16	125802
Methylene chloride	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
Naphthalene	NELAP	10.0		ND	µg/L	1	01/03/2017 13:16	125802
n-Butyl acetate		25.0		ND	µg/L	1	01/03/2017 13:16	125802
n-Butylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
n-Heptane		20.0		ND	µg/L	1	01/03/2017 13:16	125802
n-Hexane		20.0		ND	µg/L	1	01/03/2017 13:16	125802
Nitrobenzene	NELAP	50.0		ND	µg/L	1	01/03/2017 13:16	125802
n-Propylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
o-Xylene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
Pentachloroethane	NELAP	20.0		ND	µg/L	1	01/03/2017 13:16	125802
p-Isopropyltoluene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
Propionitrile	NELAP	50.0		ND	µg/L	1	01/03/2017 13:16	125802
sec-Butylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
Styrene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
tert-Butylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
Tetrahydrofuran	NELAP	20.0		ND	µg/L	1	01/03/2017 13:16	125802
Toluene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
trans-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
trans-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
trans-1,4-Dichloro-2-butene	NELAP	10.0		ND	µg/L	1	01/03/2017 13:16	125802
Trichloroethene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
Trichlorofluoromethane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:16	125802
Vinyl acetate	NELAP	10.0		ND	µg/L	1	01/03/2017 13:16	125802

## Laboratory Results

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants

**Work Order:** 16121661

**Client Project:** Huster Road 120-678

**Report Date:** 04-Jan-17

**Lab ID:** 16121661-001

**Client Sample ID:** CW 4

**Matrix:** GROUNDWATER

**Collection Date:** 12/28/2016 9:12

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Vinyl chloride	NELAP	2.0		ND	µg/L	1	01/03/2017 13:16	125802
Surr: 1,2-Dichloroethane-d4		74.7-129		99.4	%REC	1	01/03/2017 13:16	125802
Surr: 4-Bromofluorobenzene		86-119		97.8	%REC	1	01/03/2017 13:16	125802
Surr: Dibromofluoromethane		81.7-123		97.6	%REC	1	01/03/2017 13:16	125802
Surr: Toluene-d8		84.3-114		96.7	%REC	1	01/03/2017 13:16	125802

**Client:** Civil & Environmental Consultants  
**Client Project:** Huster Road 120-678

**Work Order:** 16121661  
**Report Date:** 04-Jan-17

**Lab ID:** 16121661-002

**Client Sample ID:** CW 5

**Matrix:** GROUNDWATER

**Collection Date:** 12/28/2016 9:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
1,1,1,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
1,1,2,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0		ND	µg/L	1	01/03/2017 13:43	125802
1,1,2-Trichloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
1,1-Dichloro-2-propanone		50.0		ND	µg/L	1	01/03/2017 13:43	125802
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
1,1-Dichloroethene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
1,1-Dichloropropene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
1,2,3-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
1,2,3-Trichloropropane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
1,2,3-Trimethylbenzene		5.0		ND	µg/L	1	01/03/2017 13:43	125802
1,2,4-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
1,2,4-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
1,2-Dibromo-3-chloropropane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
1,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
1,3,5-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
1,3-Dichloropropane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
1-Chlorobutane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
2,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
2-Butanone	NELAP	25.0		ND	µg/L	1	01/03/2017 13:43	125802
2-Chloroethyl vinyl ether	NELAP	20.0		ND	µg/L	1	01/03/2017 13:43	125802
2-Chlorotoluene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
2-Hexanone	NELAP	25.0		ND	µg/L	1	01/03/2017 13:43	125802
2-Nitropropane	NELAP	50.0		ND	µg/L	1	01/03/2017 13:43	125802
4-Chlorotoluene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
4-Methyl-2-pentanone	NELAP	25.0		ND	µg/L	1	01/03/2017 13:43	125802
Acetone	NELAP	25.0		ND	µg/L	1	01/03/2017 13:43	125802
Acetonitrile	NELAP	50.0		ND	µg/L	1	01/03/2017 13:43	125802
Acrolein	NELAP	100		ND	µg/L	1	01/03/2017 13:43	125802
Acrylonitrile	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
Allyl chloride	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
Benzene	NELAP	2.0		ND	µg/L	1	01/03/2017 13:43	125802
Bromobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
Bromochloromethane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
Bromodichloromethane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
Bromoform	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
Bromomethane	NELAP	10.0		ND	µg/L	1	01/03/2017 13:43	125802
Carbon disulfide	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
Carbon tetrachloride	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
Chlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
Chloroethane	NELAP	10.0		ND	µg/L	1	01/03/2017 13:43	125802

## Laboratory Results

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants  
**Client Project:** Huster Road 120-678

**Work Order:** 16121661  
**Report Date:** 04-Jan-17

**Lab ID:** 16121661-002

**Client Sample ID:** CW 5

**Matrix:** GROUNDWATER

**Collection Date:** 12/28/2016 9:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Chloroform	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
Chloromethane	NELAP	10.0		ND	µg/L	1	01/03/2017 13:43	125802
Chloroprene	NELAP	20.0		ND	µg/L	1	01/03/2017 13:43	125802
cis-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
cis-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
cis-1,4-Dichloro-2-butene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
Cyclohexanone		50.0		ND	µg/L	1	01/03/2017 13:43	125802
Dibromochloromethane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
Dibromomethane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
Dichlorodifluoromethane	NELAP	10.0		ND	µg/L	1	01/03/2017 13:43	125802
Ethyl acetate	NELAP	10.0		ND	µg/L	1	01/03/2017 13:43	125802
Ethyl ether	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
Ethyl methacrylate	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
Ethylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
Hexachlorobutadiene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
Hexachloroethane	NELAP	10.0		ND	µg/L	1	01/03/2017 13:43	125802
Iodomethane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
Isopropylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
Methacrylonitrile	NELAP	10.0		ND	µg/L	1	01/03/2017 13:43	125802
Methyl Methacrylate	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	01/03/2017 13:43	125802
Methylacrylate	NELAP	10.0		ND	µg/L	1	01/03/2017 13:43	125802
Methylene chloride	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
Naphthalene	NELAP	10.0		ND	µg/L	1	01/03/2017 13:43	125802
n-Butyl acetate		25.0		ND	µg/L	1	01/03/2017 13:43	125802
n-Butylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
n-Heptane		20.0		ND	µg/L	1	01/03/2017 13:43	125802
n-Hexane		20.0		ND	µg/L	1	01/03/2017 13:43	125802
Nitrobenzene	NELAP	50.0		ND	µg/L	1	01/03/2017 13:43	125802
n-Propylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
o-Xylene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
Pentachloroethane	NELAP	20.0		ND	µg/L	1	01/03/2017 13:43	125802
p-Isopropyltoluene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
Propionitrile	NELAP	50.0		ND	µg/L	1	01/03/2017 13:43	125802
sec-Butylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
Styrene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
tert-Butylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
Tetrahydrofuran	NELAP	20.0		ND	µg/L	1	01/03/2017 13:43	125802
Toluene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
trans-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
trans-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
trans-1,4-Dichloro-2-butene	NELAP	10.0		ND	µg/L	1	01/03/2017 13:43	125802
Trichloroethene	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
Trichlorofluoromethane	NELAP	5.0		ND	µg/L	1	01/03/2017 13:43	125802
Vinyl acetate	NELAP	10.0		ND	µg/L	1	01/03/2017 13:43	125802

## Laboratory Results

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants  
**Client Project:** Huster Road 120-678

**Work Order:** 16121661  
**Report Date:** 04-Jan-17

**Lab ID:** 16121661-002

**Client Sample ID:** CW 5

**Matrix:** GROUNDWATER

**Collection Date:** 12/28/2016 9:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Vinyl chloride	NELAP	2.0		ND	µg/L	1	01/03/2017 13:43	125802
Surr: 1,2-Dichloroethane-d4		74.7-129		99.9	%REC	1	01/03/2017 13:43	125802
Surr: 4-Bromofluorobenzene		86-119		101.0	%REC	1	01/03/2017 13:43	125802
Surr: Dibromofluoromethane		81.7-123		100.9	%REC	1	01/03/2017 13:43	125802
Surr: Toluene-d8		84.3-114		98.5	%REC	1	01/03/2017 13:43	125802

**Client:** Civil & Environmental Consultants  
**Client Project:** Huster Road 120-678

**Work Order:** 16121661  
**Report Date:** 04-Jan-17

**Lab ID:** 16121661-003

**Client Sample ID:** CW 6

**Matrix:** GROUNDWATER

**Collection Date:** 12/28/2016 9:52

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
1,1,1,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
1,1,2,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0		ND	µg/L	1	01/03/2017 14:10	125802
1,1,2-Trichloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
1,1-Dichloro-2-propanone		50.0		ND	µg/L	1	01/03/2017 14:10	125802
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
1,1-Dichloroethene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
1,1-Dichloropropene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
1,2,3-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
1,2,3-Trichloropropane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
1,2,3-Trimethylbenzene		5.0		ND	µg/L	1	01/03/2017 14:10	125802
1,2,4-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
1,2,4-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
1,2-Dibromo-3-chloropropane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
1,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
1,3,5-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
1,3-Dichloropropane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
1-Chlorobutane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
2,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
2-Butanone	NELAP	25.0		ND	µg/L	1	01/03/2017 14:10	125802
2-Chloroethyl vinyl ether	NELAP	20.0		ND	µg/L	1	01/03/2017 14:10	125802
2-Chlorotoluene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
2-Hexanone	NELAP	25.0		ND	µg/L	1	01/03/2017 14:10	125802
2-Nitropropane	NELAP	50.0		ND	µg/L	1	01/03/2017 14:10	125802
4-Chlorotoluene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
4-Methyl-2-pentanone	NELAP	25.0		ND	µg/L	1	01/03/2017 14:10	125802
Acetone	NELAP	25.0		ND	µg/L	1	01/03/2017 14:10	125802
Acetonitrile	NELAP	50.0		ND	µg/L	1	01/03/2017 14:10	125802
Acrolein	NELAP	100		ND	µg/L	1	01/03/2017 14:10	125802
Acrylonitrile	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
Allyl chloride	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
Benzene	NELAP	2.0		ND	µg/L	1	01/03/2017 14:10	125802
Bromobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
Bromochloromethane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
Bromodichloromethane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
Bromoform	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
Bromomethane	NELAP	10.0		ND	µg/L	1	01/03/2017 14:10	125802
Carbon disulfide	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
Carbon tetrachloride	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
Chlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
Chloroethane	NELAP	10.0		ND	µg/L	1	01/03/2017 14:10	125802

## Laboratory Results

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants  
**Client Project:** Huster Road 120-678

**Work Order:** 16121661  
**Report Date:** 04-Jan-17

**Lab ID:** 16121661-003

**Client Sample ID:** CW 6

**Matrix:** GROUNDWATER

**Collection Date:** 12/28/2016 9:52

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Chloroform	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
Chloromethane	NELAP	10.0		ND	µg/L	1	01/03/2017 14:10	125802
Chloroprene	NELAP	20.0		ND	µg/L	1	01/03/2017 14:10	125802
cis-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
cis-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
cis-1,4-Dichloro-2-butene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
Cyclohexanone		50.0		ND	µg/L	1	01/03/2017 14:10	125802
Dibromochloromethane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
Dibromomethane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
Dichlorodifluoromethane	NELAP	10.0		ND	µg/L	1	01/03/2017 14:10	125802
Ethyl acetate	NELAP	10.0		ND	µg/L	1	01/03/2017 14:10	125802
Ethyl ether	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
Ethyl methacrylate	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
Ethylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
Hexachlorobutadiene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
Hexachloroethane	NELAP	10.0		ND	µg/L	1	01/03/2017 14:10	125802
Iodomethane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
Isopropylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
Methacrylonitrile	NELAP	10.0		ND	µg/L	1	01/03/2017 14:10	125802
Methyl Methacrylate	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	01/03/2017 14:10	125802
Methylacrylate	NELAP	10.0		ND	µg/L	1	01/03/2017 14:10	125802
Methylene chloride	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
Naphthalene	NELAP	10.0		ND	µg/L	1	01/03/2017 14:10	125802
n-Butyl acetate		25.0		ND	µg/L	1	01/03/2017 14:10	125802
n-Butylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
n-Heptane		20.0		ND	µg/L	1	01/03/2017 14:10	125802
n-Hexane		20.0		ND	µg/L	1	01/03/2017 14:10	125802
Nitrobenzene	NELAP	50.0		ND	µg/L	1	01/03/2017 14:10	125802
n-Propylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
o-Xylene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
Pentachloroethane	NELAP	20.0		ND	µg/L	1	01/03/2017 14:10	125802
p-Isopropyltoluene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
Propionitrile	NELAP	50.0		ND	µg/L	1	01/03/2017 14:10	125802
sec-Butylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
Styrene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
tert-Butylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
Tetrahydrofuran	NELAP	20.0		ND	µg/L	1	01/03/2017 14:10	125802
Toluene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
trans-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
trans-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
trans-1,4-Dichloro-2-butene	NELAP	10.0		ND	µg/L	1	01/03/2017 14:10	125802
Trichloroethene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
Trichlorofluoromethane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:10	125802
Vinyl acetate	NELAP	10.0		ND	µg/L	1	01/03/2017 14:10	125802



## Laboratory Results

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants

**Work Order:** 16121661

**Client Project:** Huster Road 120-678

**Report Date:** 04-Jan-17

**Lab ID:** 16121661-003

**Client Sample ID:** CW 6

**Matrix:** GROUNDWATER

**Collection Date:** 12/28/2016 9:52

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Vinyl chloride	NELAP	2.0	ND	µg/L	1	01/03/2017 14:10	125802	
Surr: 1,2-Dichloroethane-d4		74.7-129	103.1	%REC	1	01/03/2017 14:10	125802	
Surr: 4-Bromofluorobenzene		86-119	102.6	%REC	1	01/03/2017 14:10	125802	
Surr: Dibromofluoromethane		81.7-123	101.7	%REC	1	01/03/2017 14:10	125802	
Surr: Toluene-d8		84.3-114	100.4	%REC	1	01/03/2017 14:10	125802	

## Laboratory Results

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants  
**Client Project:** Huster Road 120-678

**Work Order:** 16121661  
**Report Date:** 04-Jan-17

**Lab ID:** 16121661-004

**Client Sample ID:** CW 9

**Matrix:** GROUNDWATER

**Collection Date:** 12/28/2016 9:58

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
1,1,1,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
1,1,2,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0		ND	µg/L	1	01/03/2017 14:37	125802
1,1,2-Trichloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
1,1-Dichloro-2-propanone		50.0		ND	µg/L	1	01/03/2017 14:37	125802
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
1,1-Dichloroethene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
1,1-Dichloropropene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
1,2,3-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
1,2,3-Trichloropropane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
1,2,3-Trimethylbenzene		5.0		ND	µg/L	1	01/03/2017 14:37	125802
1,2,4-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
1,2,4-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
1,2-Dibromo-3-chloropropane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
1,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
1,3,5-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
1,3-Dichloropropane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
1-Chlorobutane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
2,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
2-Butanone	NELAP	25.0		ND	µg/L	1	01/03/2017 14:37	125802
2-Chloroethyl vinyl ether	NELAP	20.0		ND	µg/L	1	01/03/2017 14:37	125802
2-Chlorotoluene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
2-Hexanone	NELAP	25.0		ND	µg/L	1	01/03/2017 14:37	125802
2-Nitropropane	NELAP	50.0		ND	µg/L	1	01/03/2017 14:37	125802
4-Chlorotoluene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
4-Methyl-2-pentanone	NELAP	25.0		ND	µg/L	1	01/03/2017 14:37	125802
Acetone	NELAP	25.0		ND	µg/L	1	01/03/2017 14:37	125802
Acetonitrile	NELAP	50.0		ND	µg/L	1	01/03/2017 14:37	125802
Acrolein	NELAP	100		ND	µg/L	1	01/03/2017 14:37	125802
Acrylonitrile	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
Allyl chloride	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
Benzene	NELAP	2.0		ND	µg/L	1	01/03/2017 14:37	125802
Bromobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
Bromochloromethane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
Bromodichloromethane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
Bromoform	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
Bromomethane	NELAP	10.0		ND	µg/L	1	01/03/2017 14:37	125802
Carbon disulfide	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
Carbon tetrachloride	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
Chlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
Chloroethane	NELAP	10.0		ND	µg/L	1	01/03/2017 14:37	125802

## Laboratory Results

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants  
**Client Project:** Huster Road 120-678

**Work Order:** 16121661  
**Report Date:** 04-Jan-17

**Lab ID:** 16121661-004

**Client Sample ID:** CW 9

**Matrix:** GROUNDWATER

**Collection Date:** 12/28/2016 9:58

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Chloroform	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
Chloromethane	NELAP	10.0		ND	µg/L	1	01/03/2017 14:37	125802
Chloroprene	NELAP	20.0		ND	µg/L	1	01/03/2017 14:37	125802
cis-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
cis-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
cis-1,4-Dichloro-2-butene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
Cyclohexanone		50.0		ND	µg/L	1	01/03/2017 14:37	125802
Dibromochloromethane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
Dibromomethane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
Dichlorodifluoromethane	NELAP	10.0		ND	µg/L	1	01/03/2017 14:37	125802
Ethyl acetate	NELAP	10.0		ND	µg/L	1	01/03/2017 14:37	125802
Ethyl ether	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
Ethyl methacrylate	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
Ethylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
Hexachlorobutadiene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
Hexachloroethane	NELAP	10.0		ND	µg/L	1	01/03/2017 14:37	125802
Iodomethane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
Isopropylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
Methacrylonitrile	NELAP	10.0		ND	µg/L	1	01/03/2017 14:37	125802
Methyl Methacrylate	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	01/03/2017 14:37	125802
Methylacrylate	NELAP	10.0		ND	µg/L	1	01/03/2017 14:37	125802
Methylene chloride	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
Naphthalene	NELAP	10.0		ND	µg/L	1	01/03/2017 14:37	125802
n-Butyl acetate		25.0		ND	µg/L	1	01/03/2017 14:37	125802
n-Butylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
n-Heptane		20.0		ND	µg/L	1	01/03/2017 14:37	125802
n-Hexane		20.0		ND	µg/L	1	01/03/2017 14:37	125802
Nitrobenzene	NELAP	50.0		ND	µg/L	1	01/03/2017 14:37	125802
n-Propylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
o-Xylene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
Pentachloroethane	NELAP	20.0		ND	µg/L	1	01/03/2017 14:37	125802
p-Isopropyltoluene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
Propionitrile	NELAP	50.0		ND	µg/L	1	01/03/2017 14:37	125802
sec-Butylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
Styrene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
tert-Butylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
Tetrahydrofuran	NELAP	20.0		ND	µg/L	1	01/03/2017 14:37	125802
Toluene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
trans-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
trans-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
trans-1,4-Dichloro-2-butene	NELAP	10.0		ND	µg/L	1	01/03/2017 14:37	125802
Trichloroethene	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
Trichlorofluoromethane	NELAP	5.0		ND	µg/L	1	01/03/2017 14:37	125802
Vinyl acetate	NELAP	10.0		ND	µg/L	1	01/03/2017 14:37	125802

## Laboratory Results

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants

**Work Order:** 16121661

**Client Project:** Huster Road 120-678

**Report Date:** 04-Jan-17

**Lab ID:** 16121661-004

**Client Sample ID:** CW 9

**Matrix:** GROUNDWATER

**Collection Date:** 12/28/2016 9:58

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Vinyl chloride	NELAP	2.0		ND	µg/L	1	01/03/2017 14:37	125802
Surr: 1,2-Dichloroethane-d4		74.7-129		102.4	%REC	1	01/03/2017 14:37	125802
Surr: 4-Bromofluorobenzene		86-119		100.1	%REC	1	01/03/2017 14:37	125802
Surr: Dibromofluoromethane		81.7-123		100.8	%REC	1	01/03/2017 14:37	125802
Surr: Toluene-d8		84.3-114		101.0	%REC	1	01/03/2017 14:37	125802

## Laboratory Results

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants  
**Client Project:** Huster Road 120-678

**Work Order:** 16121661  
**Report Date:** 04-Jan-17

**Lab ID:** 16121661-005

**Client Sample ID:** CW 5 DUP

**Matrix:** GROUNDWATER

**Collection Date:** 12/28/2016 9:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
1,1,1,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
1,1,1-Trichloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
1,1,2,2-Tetrachloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0		ND	µg/L	1	01/03/2017 15:04	125802
1,1,2-Trichloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
1,1-Dichloro-2-propanone		50.0		ND	µg/L	1	01/03/2017 15:04	125802
1,1-Dichloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
1,1-Dichloroethene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
1,1-Dichloropropene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
1,2,3-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
1,2,3-Trichloropropane	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
1,2,3-Trimethylbenzene		5.0		ND	µg/L	1	01/03/2017 15:04	125802
1,2,4-Trichlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
1,2,4-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
1,2-Dibromo-3-chloropropane	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
1,2-Dibromoethane	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
1,2-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
1,2-Dichloroethane	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
1,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
1,3,5-Trimethylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
1,3-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
1,3-Dichloropropane	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
1,4-Dichlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
1-Chlorobutane	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
2,2-Dichloropropane	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
2-Butanone	NELAP	25.0		ND	µg/L	1	01/03/2017 15:04	125802
2-Chloroethyl vinyl ether	NELAP	20.0		ND	µg/L	1	01/03/2017 15:04	125802
2-Chlorotoluene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
2-Hexanone	NELAP	25.0		ND	µg/L	1	01/03/2017 15:04	125802
2-Nitropropane	NELAP	50.0		ND	µg/L	1	01/03/2017 15:04	125802
4-Chlorotoluene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
4-Methyl-2-pentanone	NELAP	25.0		ND	µg/L	1	01/03/2017 15:04	125802
Acetone	NELAP	25.0		ND	µg/L	1	01/03/2017 15:04	125802
Acetonitrile	NELAP	50.0		ND	µg/L	1	01/03/2017 15:04	125802
Acrolein	NELAP	100		ND	µg/L	1	01/03/2017 15:04	125802
Acrylonitrile	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
Allyl chloride	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
Benzene	NELAP	2.0		ND	µg/L	1	01/03/2017 15:04	125802
Bromobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
Bromochloromethane	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
Bromodichloromethane	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
Bromoform	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
Bromomethane	NELAP	10.0		ND	µg/L	1	01/03/2017 15:04	125802
Carbon disulfide	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
Carbon tetrachloride	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
Chlorobenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
Chloroethane	NELAP	10.0		ND	µg/L	1	01/03/2017 15:04	125802

**Client:** Civil & Environmental Consultants  
**Client Project:** Huster Road 120-678

**Work Order:** 16121661  
**Report Date:** 04-Jan-17

**Lab ID:** 16121661-005

**Client Sample ID:** CW 5 DUP

**Matrix:** GROUNDWATER

**Collection Date:** 12/28/2016 9:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Chloroform	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
Chloromethane	NELAP	10.0		ND	µg/L	1	01/03/2017 15:04	125802
Chloroprene	NELAP	20.0		ND	µg/L	1	01/03/2017 15:04	125802
cis-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
cis-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
cis-1,4-Dichloro-2-butene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
Cyclohexanone		50.0		ND	µg/L	1	01/03/2017 15:04	125802
Dibromochloromethane	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
Dibromomethane	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
Dichlorodifluoromethane	NELAP	10.0		ND	µg/L	1	01/03/2017 15:04	125802
Ethyl acetate	NELAP	10.0		ND	µg/L	1	01/03/2017 15:04	125802
Ethyl ether	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
Ethyl methacrylate	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
Ethylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
Hexachlorobutadiene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
Hexachloroethane	NELAP	10.0		ND	µg/L	1	01/03/2017 15:04	125802
Iodomethane	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
Isopropylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
m,p-Xylenes	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
Methacrylonitrile	NELAP	10.0		ND	µg/L	1	01/03/2017 15:04	125802
Methyl Methacrylate	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
Methyl tert-butyl ether	NELAP	2.0		ND	µg/L	1	01/03/2017 15:04	125802
Methylacrylate	NELAP	10.0		ND	µg/L	1	01/03/2017 15:04	125802
Methylene chloride	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
Naphthalene	NELAP	10.0		ND	µg/L	1	01/03/2017 15:04	125802
n-Butyl acetate		25.0		ND	µg/L	1	01/03/2017 15:04	125802
n-Butylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
n-Heptane		20.0		ND	µg/L	1	01/03/2017 15:04	125802
n-Hexane		20.0		ND	µg/L	1	01/03/2017 15:04	125802
Nitrobenzene	NELAP	50.0		ND	µg/L	1	01/03/2017 15:04	125802
n-Propylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
o-Xylene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
Pentachloroethane	NELAP	20.0		ND	µg/L	1	01/03/2017 15:04	125802
p-Isopropyltoluene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
Propionitrile	NELAP	50.0		ND	µg/L	1	01/03/2017 15:04	125802
sec-Butylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
Styrene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
tert-Butylbenzene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
Tetrachloroethene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
Tetrahydrofuran	NELAP	20.0		ND	µg/L	1	01/03/2017 15:04	125802
Toluene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
trans-1,2-Dichloroethene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
trans-1,3-Dichloropropene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
trans-1,4-Dichloro-2-butene	NELAP	10.0		ND	µg/L	1	01/03/2017 15:04	125802
Trichloroethene	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
Trichlorofluoromethane	NELAP	5.0		ND	µg/L	1	01/03/2017 15:04	125802
Vinyl acetate	NELAP	10.0		ND	µg/L	1	01/03/2017 15:04	125802



## Laboratory Results

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants

**Work Order:** 16121661

**Client Project:** Huster Road 120-678

**Report Date:** 04-Jan-17

**Lab ID:** 16121661-005

**Client Sample ID:** CW 5 DUP

**Matrix:** GROUNDWATER

**Collection Date:** 12/28/2016 9:35

Analyses	Certification	RL	Qual	Result	Units	DF	Date Analyzed	Batch
<b>SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS</b>								
Vinyl chloride	NELAP	2.0	ND	µg/L	1	01/03/2017 15:04	125802	
Surr: 1,2-Dichloroethane-d4		74.7-129	101.7	%REC	1	01/03/2017 15:04	125802	
Surr: 4-Bromofluorobenzene		86-119	101.7	%REC	1	01/03/2017 15:04	125802	
Surr: Dibromofluoromethane		81.7-123	96.4	%REC	1	01/03/2017 15:04	125802	
Surr: Toluene-d8		84.3-114	101.4	%REC	1	01/03/2017 15:04	125802	



## Sample Summary

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants

**Work Order:** 16121661

**Client Project:** Huster Road 120-678

**Report Date:** 04-Jan-17

Lab Sample ID	Client Sample ID	Matrix	Fractions	Collection Date
16121661-001	CW 4	Groundwater	1	12/28/2016 9:12
16121661-002	CW 5	Groundwater	1	12/28/2016 9:35
16121661-003	CW 6	Groundwater	1	12/28/2016 9:52
16121661-004	CW 9	Groundwater	1	12/28/2016 9:58
16121661-005	CW 5 DUP	Groundwater	1	12/28/2016 9:35

## Dates Report

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants

**Work Order:** 16121661

**Client Project:** Huster Road 120-678

**Report Date:** 04-Jan-17

Sample ID	Client Sample ID	Collection Date	Received Date	Prep Date/Time	Analysis Date/Time
Test Name					
16121661-001A	CW 4	12/28/2016 9:12	12/28/2016 15:35		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				01/03/2017 13:16
16121661-002A	CW 5	12/28/2016 9:35	12/28/2016 15:35		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				01/03/2017 13:43
16121661-003A	CW 6	12/28/2016 9:52	12/28/2016 15:35		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				01/03/2017 14:10
16121661-004A	CW 9	12/28/2016 9:58	12/28/2016 15:35		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				01/03/2017 14:37
16121661-005A	CW 5 DUP	12/28/2016 9:35	12/28/2016 15:35		
	SW-846 5030, 8260B, Volatile Organic Compounds by GC/MS				01/03/2017 15:04

**Client:** Civil & Environmental Consultants

**Work Order:** 16121661

**Client Project:** Huster Road 120-678

**Report Date:** 04-Jan-17

**SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS**

Batch	125802	SampType	MBLK	Units	µg/L						Date Analyzed
Analyses		RL	Qual	Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit	
1,1,1,2-Tetrachloroethane		5.0		ND							01/03/2017
1,1,1-Trichloroethane		5.0		ND							01/03/2017
1,1,2,2-Tetrachloroethane		5.0		ND							01/03/2017
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0		ND							01/03/2017
1,1,2-Trichloroethane		5.0		ND							01/03/2017
1,1-Dichloro-2-propanone		50.0		ND							01/03/2017
1,1-Dichloroethane		5.0		ND							01/03/2017
1,1-Dichloroethene		5.0		ND							01/03/2017
1,1-Dichloropropene		5.0		ND							01/03/2017
1,2,3-Trichlorobenzene		5.0		ND							01/03/2017
1,2,3-Trichloropropane		5.0		ND							01/03/2017
1,2,3-Trimethylbenzene		5.0		ND							01/03/2017
1,2,4-Trichlorobenzene		5.0		ND							01/03/2017
1,2,4-Trimethylbenzene		5.0		ND							01/03/2017
1,2-Dibromo-3-chloropropane		5.0		ND							01/03/2017
1,2-Dibromoethane		5.0		ND							01/03/2017
1,2-Dichlorobenzene		5.0		ND							01/03/2017
1,2-Dichloroethane		5.0		ND							01/03/2017
1,2-Dichloropropane		5.0		ND							01/03/2017
1,3,5-Trimethylbenzene		5.0		ND							01/03/2017
1,3-Dichlorobenzene		5.0		ND							01/03/2017
1,3-Dichloropropane		5.0		ND							01/03/2017
1,4-Dichlorobenzene		5.0		ND							01/03/2017
1-Chlorobutane		5.0		ND							01/03/2017
2,2-Dichloropropane		5.0		ND							01/03/2017
2-Butanone		25.0		ND							01/03/2017
2-Chloroethyl vinyl ether		20.0		ND							01/03/2017
2-Chlorotoluene		5.0		ND							01/03/2017
2-Hexanone		25.0		ND							01/03/2017
2-Nitropropane		50.0		ND							01/03/2017
4-Chlorotoluene		5.0		ND							01/03/2017
4-Methyl-2-pentanone		25.0		ND							01/03/2017
Acetone		25.0		ND							01/03/2017
Acetonitrile		50.0		ND							01/03/2017
Acrolein		100		ND							01/03/2017
Acrylonitrile		5.0		ND							01/03/2017
Allyl chloride		5.0		ND							01/03/2017
Benzene		2.0		ND							01/03/2017
Bromobenzene		5.0		ND							01/03/2017
Bromochloromethane		5.0		ND							01/03/2017
Bromodichloromethane		5.0		ND							01/03/2017
Bromoform		5.0		ND							01/03/2017
Bromomethane		10.0		ND							01/03/2017
Carbon disulfide		5.0		ND							01/03/2017
Carbon tetrachloride		5.0		ND							01/03/2017
Chlorobenzene		5.0		ND							01/03/2017
Chloroethane		10.0		ND							01/03/2017

**Client:** Civil & Environmental Consultants

**Work Order:** 16121661

**Client Project:** Huster Road 120-678

**Report Date:** 04-Jan-17

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	125802	SampType	MBLK	Units	µg/L						Date Analyzed
SampID:			MBLK-N170103A-1								
<b>Analyses</b>		<b>RL</b>	<b>Qual</b>		<b>Result</b>	<b>Spike</b>	<b>SPK</b>	<b>Ref Val</b>	<b>%REC</b>	<b>Low Limit</b>	<b>High Limit</b>
Chloroform		5.0			ND						01/03/2017
Chloromethane		10.0			ND						01/03/2017
Chloroprene		20.0			ND						01/03/2017
cis-1,2-Dichloroethene		5.0			ND						01/03/2017
cis-1,3-Dichloropropene		5.0			ND						01/03/2017
cis-1,4-Dichloro-2-butene		5.0			ND						01/03/2017
Cyclohexanone		50.0			ND						01/03/2017
Dibromochloromethane		5.0			ND						01/03/2017
Dibromomethane		5.0			ND						01/03/2017
Dichlorodifluoromethane		10.0			ND						01/03/2017
Ethyl acetate		10.0			ND						01/03/2017
Ethyl ether		5.0			ND						01/03/2017
Ethyl methacrylate		5.0			ND						01/03/2017
Ethylbenzene		5.0			ND						01/03/2017
Hexachlorobutadiene		5.0			ND						01/03/2017
Hexachloroethane		10.0			ND						01/03/2017
Iodomethane		5.0			ND						01/03/2017
Isopropylbenzene		5.0			ND						01/03/2017
m,p-Xylenes		5.0			ND						01/03/2017
Methacrylonitrile		10.0			ND						01/03/2017
Methyl Methacrylate		5.0			ND						01/03/2017
Methyl tert-butyl ether		2.0			ND						01/03/2017
Methylacrylate		10.0			ND						01/03/2017
Methylene chloride		5.0			ND						01/03/2017
Naphthalene		10.0			ND						01/03/2017
n-Butyl acetate		25.0			ND						01/03/2017
n-Butylbenzene		5.0			ND						01/03/2017
n-Heptane		20.0			ND						01/03/2017
n-Hexane		20.0			ND						01/03/2017
Nitrobenzene		50.0			ND						01/03/2017
n-Propylbenzene		5.0			ND						01/03/2017
o-Xylene		5.0			ND						01/03/2017
Pentachloroethane		20.0			ND						01/03/2017
p-Isopropyltoluene		5.0			ND						01/03/2017
Propionitrile		50.0			ND						01/03/2017
sec-Butylbenzene		5.0			ND						01/03/2017
Styrene		5.0			ND						01/03/2017
tert-Butylbenzene		5.0			ND						01/03/2017
Tetrachloroethene		5.0			ND						01/03/2017
Tetrahydrofuran		20.0			ND						01/03/2017
Toluene		5.0			ND						01/03/2017
trans-1,2-Dichloroethene		5.0			ND						01/03/2017
trans-1,3-Dichloropropene		5.0			ND						01/03/2017
trans-1,4-Dichloro-2-butene		10.0			ND						01/03/2017
Trichloroethene		5.0			ND						01/03/2017
Trichlorofluoromethane		5.0			ND						01/03/2017
Vinyl acetate		10.0			ND						01/03/2017

**Client:** Civil & Environmental Consultants

**Work Order:** 16121661

**Client Project:** Huster Road 120-678

**Report Date:** 04-Jan-17

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch 125802 SampType: MBLK Units µg/L

SampID: MBLK-N170103A-1

Analyses	RL	Qual	Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit	Date Analyzed
Vinyl chloride	2.0		ND							01/03/2017
Surr: 1,2-Dichloroethane-d4			51.7	50.00		103.5		74.7	129	01/03/2017
Surr: 4-Bromofluorobenzene			48.3	50.00		96.6		86	119	01/03/2017
Surr: Dibromofluoromethane			50.4	50.00		100.8		81.7	123	01/03/2017
Surr: Toluene-d8			52.8	50.00		105.7		84.3	114	01/03/2017

**Client:** Civil & Environmental Consultants

**Work Order:** 16121661

**Client Project:** Huster Road 120-678

**Report Date:** 04-Jan-17

**SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS**

Batch	125802	SampType:	LCSD	Units	µg/L	RPD Limit 40									Date Analyzed
				SampID:	LCSD-N170103A-1	Analyses	RL	Qual	Result	Spike	SPK Ref Val	%REC	RPD Ref Val	%RPD	
1,1,1,2-Tetrachloroethane				5.0		<b>50.0</b>	50.00	0	100.1		54.62		8.73		01/03/2017
1,1,1-Trichloroethane				5.0		<b>49.4</b>	50.00	0	98.8		53.70		8.30		01/03/2017
1,1,2,2-Tetrachloroethane				5.0		<b>46.3</b>	50.00	0	92.5		46.90		1.35		01/03/2017
1,1,2-Trichloro-1,2,2-trifluoroethane				20.0		<b>47.2</b>	50.00	0	94.5		51.11		7.89		01/03/2017
1,1,2-Trichloroethane				5.0		<b>49.2</b>	50.00	0	98.3		48.66		1.02		01/03/2017
1,1-Dichloro-2-propanone				50.0		<b>126</b>	125.0	0	101.1		137.0		8.01		01/03/2017
1,1-Dichloroethane				5.0		<b>47.9</b>	50.00	0	95.7		52.85		9.91		01/03/2017
1,1-Dichloroethene				5.0		<b>48.5</b>	50.00	0	97.0		51.66		6.33		01/03/2017
1,1-Dichloropropene				5.0		<b>46.5</b>	50.00	0	93.1		50.09		7.35		01/03/2017
1,2,3-Trichlorobenzene				5.0		<b>49.3</b>	50.00	0	98.6		50.84		3.10		01/03/2017
1,2,3-Trichloropropane				5.0		<b>48.6</b>	50.00	0	97.1		49.14		1.19		01/03/2017
1,2,3-Trimethylbenzene				5.0		<b>48.8</b>	50.00	0	97.7		48.43		0.82		01/03/2017
1,2,4-Trichlorobenzene				5.0		<b>50.1</b>	50.00	0	100.2		50.13		0.02		01/03/2017
1,2,4-Trimethylbenzene				5.0		<b>47.3</b>	50.00	0	94.6		48.09		1.64		01/03/2017
1,2-Dibromo-3-chloropropane				5.0		<b>49.4</b>	50.00	0	98.9		50.46		2.06		01/03/2017
1,2-Dibromoethane				5.0		<b>50.6</b>	50.00	0	101.2		50.52		0.16		01/03/2017
1,2-Dichlorobenzene				5.0		<b>49.4</b>	50.00	0	98.8		49.95		1.11		01/03/2017
1,2-Dichloroethane				5.0		<b>49.6</b>	50.00	0	99.2		53.24		7.06		01/03/2017
1,2-Dichloropropane				5.0		<b>49.2</b>	50.00	0	98.4		52.64		6.76		01/03/2017
1,3,5-Trimethylbenzene				5.0		<b>47.6</b>	50.00	0	95.3		47.89		0.54		01/03/2017
1,3-Dichlorobenzene				5.0		<b>50.0</b>	50.00	0	100.0		49.98		0.08		01/03/2017
1,3-Dichloropropane				5.0		<b>47.3</b>	50.00	0	94.5		46.42		1.79		01/03/2017
1,4-Dichlorobenzene				5.0		<b>47.9</b>	50.00	0	95.8		47.93		0.04		01/03/2017
1-Chlorobutane				5.0		<b>47.1</b>	50.00	0	94.2		49.16		4.32		01/03/2017
2,2-Dichloropropane				5.0		<b>49.9</b>	50.00	0	99.8		53.62		7.19		01/03/2017
2-Butanone				25.0		<b>109</b>	125.0	0	87.0		125.9		14.67		01/03/2017
2-Chloroethyl vinyl ether				20.0		<b>49.4</b>	50.00	0	98.9		53.40		7.68		01/03/2017
2-Chlorotoluene				5.0		<b>47.1</b>	50.00	0	94.2		48.15		2.16		01/03/2017
2-Hexanone				25.0		<b>120</b>	125.0	0	95.9		125.9		4.90		01/03/2017
2-Nitropropane				50.0		<b>492</b>	500.0	0	98.4		543.7		9.96		01/03/2017
4-Chlorotoluene				5.0		<b>47.0</b>	50.00	0	94.1		47.88		1.77		01/03/2017
4-Methyl-2-pentanone				25.0		<b>121</b>	125.0	0	96.5		122.7		1.78		01/03/2017
Acetone				25.0		<b>98.3</b>	125.0	0	78.7		122.6		22.02		01/03/2017
Acetonitrile				50.0		<b>419</b>	500.0	0	83.8		506.7		18.98		01/03/2017
Acrolein				100		<b>246</b>	500.0	0	49.2		254.1		3.17		01/03/2017
Acrylonitrile				5.0		<b>47.6</b>	50.00	0	95.2		53.69		12.07		01/03/2017
Allyl chloride				5.0		<b>51.6</b>	50.00	0	103.2		58.95		13.28		01/03/2017
Benzene				2.0		<b>48.4</b>	50.00	0	96.8		53.00		9.07		01/03/2017
Bromobenzene				5.0		<b>47.7</b>	50.00	0	95.5		47.38		0.74		01/03/2017
Bromochloromethane				5.0		<b>46.4</b>	50.00	0	92.8		49.62		6.73		01/03/2017
Bromodichloromethane				5.0		<b>50.1</b>	50.00	0	100.2		52.64		4.90		01/03/2017
Bromoform				5.0		<b>51.5</b>	50.00	0	103.0		58.85		13.28		01/03/2017
Bromomethane				10.0		<b>42.8</b>	50.00	0	85.6		47.69		10.76		01/03/2017
Carbon disulfide				5.0		<b>46.1</b>	50.00	0	92.2		50.25		8.64		01/03/2017
Carbon tetrachloride				5.0		<b>50.2</b>	50.00	0	100.5		53.71		6.66		01/03/2017
Chlorobenzene				5.0		<b>47.2</b>	50.00	0	94.3		50.80		7.43		01/03/2017
Chloroethane				10.0		<b>41.8</b>	50.00	0	83.7		38.54		8.21		01/03/2017

**Client:** Civil & Environmental Consultants

**Work Order:** 16121661

**Client Project:** Huster Road 120-678

**Report Date:** 04-Jan-17

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	125802	SampType:	LCSD	Units	µg/L	RPD Limit 40						Date Analyzed	
SampID: LCSD-N170103A-1													
Analyses		RL	Qual		Result	Spike	SPK	Ref Val	%REC	RPD	Ref Val	%RPD	
Chloroform		5.0			<b>45.8</b>	50.00	0	91.7		48.84		6.36	01/03/2017
Chloromethane		10.0			<b>32.8</b>	50.00	0	65.7		41.20		22.61	01/03/2017
Chloroprene		20.0			<b>48.7</b>	50.00	0	97.4		52.54		7.54	01/03/2017
cis-1,2-Dichloroethene		5.0			<b>48.2</b>	50.00	0	96.5		51.88		7.29	01/03/2017
cis-1,3-Dichloropropene		5.0			<b>50.6</b>	50.00	0	101.1		53.28		5.22	01/03/2017
cis-1,4-Dichloro-2-butene		5.0			<b>46.0</b>	50.00	0	91.9		51.32		11.02	01/03/2017
Cyclohexanone		50.0			<b>511</b>	500.0	0	102.1		609.8		17.68	01/03/2017
Dibromochloromethane		5.0			<b>53.6</b>	50.00	0	107.3		54.23		1.08	01/03/2017
Dibromomethane		5.0			<b>48.8</b>	50.00	0	97.7		52.89		7.94	01/03/2017
Dichlorodifluoromethane		10.0			<b>37.6</b>	50.00	0	75.1		44.63		17.18	01/03/2017
Ethyl acetate		10.0			<b>43.3</b>	50.00	0	86.5		49.38		13.21	01/03/2017
Ethyl ether		5.0			<b>53.8</b>	50.00	0	107.5		50.07		7.11	01/03/2017
Ethyl methacrylate		5.0			<b>51.1</b>	50.00	0	102.2		50.71		0.79	01/03/2017
Ethylbenzene		5.0			<b>46.3</b>	50.00	0	92.7		51.89		11.30	01/03/2017
Hexachlorobutadiene		5.0			<b>47.1</b>	50.00	0	94.2		47.52		0.93	01/03/2017
Hexachloroethane		10.0			<b>48.4</b>	50.00	0	96.9		50.82		4.82	01/03/2017
Iodomethane		5.0			<b>46.4</b>	50.00	0	92.8		51.08		9.56	01/03/2017
Isopropylbenzene		5.0			<b>46.2</b>	50.00	0	92.4		51.47		10.77	01/03/2017
m,p-Xylenes		5.0			<b>95.2</b>	100.0	0	95.2		105.1		9.94	01/03/2017
Methacrylonitrile		10.0			<b>45.1</b>	50.00	0	90.2		51.02		12.27	01/03/2017
Methyl Methacrylate		5.0			<b>48.2</b>	50.00	0	96.4		53.53		10.48	01/03/2017
Methyl tert-butyl ether		2.0			<b>49.4</b>	50.00	0	98.7		52.86		6.87	01/03/2017
Methylacrylate		10.0			<b>46.5</b>	50.00	0	93.0		50.84		8.90	01/03/2017
Methylene chloride		5.0			<b>42.5</b>	50.00	0	85.0		49.27		14.71	01/03/2017
Naphthalene		10.0			<b>48.9</b>	50.00	0	97.8		49.53		1.30	01/03/2017
n-Butyl acetate		25.0			<b>46.3</b>	50.00	0	92.6		49.05		5.75	01/03/2017
n-Butylbenzene		5.0			<b>47.8</b>	50.00	0	95.5		48.67		1.91	01/03/2017
n-Heptane		20.0			<b>45.7</b>	50.00	0	91.4		46.57		1.91	01/03/2017
n-Hexane		20.0			<b>46.8</b>	50.00	0	93.5		50.37		7.45	01/03/2017
Nitrobenzene		50.0			<b>507</b>	500.0	0	101.4		539.9		6.27	01/03/2017
n-Propylbenzene		5.0			<b>47.5</b>	50.00	0	95.0		49.62		4.39	01/03/2017
o-Xylene		5.0			<b>46.3</b>	50.00	0	92.6		51.92		11.47	01/03/2017
Pentachloroethane		20.0			<b>53.9</b>	50.00	0	107.9		55.63		3.08	01/03/2017
p-Isopropyltoluene		5.0			<b>49.6</b>	50.00	0	99.2		49.65		0.08	01/03/2017
Propionitrile		50.0			<b>478</b>	500.0	0	95.5		568.9		17.45	01/03/2017
sec-Butylbenzene		5.0			<b>47.7</b>	50.00	0	95.5		48.35		1.29	01/03/2017
Styrene		5.0			<b>48.1</b>	50.00	0	96.3		55.32		13.90	01/03/2017
tert-Butylbenzene		5.0			<b>47.2</b>	50.00	0	94.3		49.25		4.34	01/03/2017
Tetrachloroethene		5.0			<b>49.5</b>	50.00	0	99.0		50.20		1.38	01/03/2017
Tetrahydrofuran		20.0			<b>43.3</b>	50.00	0	86.6		45.78		5.54	01/03/2017
Toluene		5.0			<b>48.6</b>	50.00	0	97.2		48.93		0.72	01/03/2017
trans-1,2-Dichloroethene		5.0			<b>48.9</b>	50.00	0	97.8		53.49		8.99	01/03/2017
trans-1,3-Dichloropropene		5.0			<b>52.1</b>	50.00	0	104.2		51.65		0.89	01/03/2017
trans-1,4-Dichloro-2-butene		10.0			<b>49.8</b>	50.00	0	99.7		51.10		2.48	01/03/2017
Trichloroethene		5.0			<b>49.6</b>	50.00	0	99.2		53.93		8.36	01/03/2017
Trichlorofluoromethane		5.0			<b>55.9</b>	50.00	0	111.8		55.76		0.23	01/03/2017
Vinyl acetate		10.0			<b>49.5</b>	50.00	0	99.1		54.18		8.97	01/03/2017

**Client:** Civil & Environmental Consultants

**Work Order:** 16121661

**Client Project:** Huster Road 120-678

**Report Date:** 04-Jan-17

### SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	SampType	Units	RPD Limit 40								
Analyses	RL	Qual	Result	Spike	SPK	Ref Val	%REC	RPD	Ref Val	%RPD	Date Analyzed
Vinyl chloride	2.0		<b>36.4</b>	50.00	0	72.8		42.67	15.89		01/03/2017
Surr: 1,2-Dichloroethane-d4			<b>50.1</b>	50.00		100.1					01/03/2017
Surr: 4-Bromofluorobenzene			<b>49.6</b>	50.00		99.3					01/03/2017
Surr: Dibromofluoromethane			<b>49.5</b>	50.00		99.0					01/03/2017
Surr: Toluene-d8			<b>52.0</b>	50.00		104.0					01/03/2017

**Client:** Civil & Environmental Consultants

**Work Order:** 16121661

**Client Project:** Huster Road 120-678

**Report Date:** 04-Jan-17

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	125802	SampType	LCS	Units	µg/L						Date Analyzed	
SampID: LCS-N170103A-1												
Analyses		RL	Qual		Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit	
1,1,1,2-Tetrachloroethane		5.0			<b>54.6</b>	50.00	0	109.2		81.9	115	01/03/2017
1,1,1-Trichloroethane		5.0			<b>53.7</b>	50.00	0	107.4		79.4	124	01/03/2017
1,1,2,2-Tetrachloroethane		5.0			<b>46.9</b>	50.00	0	93.8		74.7	116	01/03/2017
1,1,2-Trichloro-1,2,2-trifluoroethane		20.0			<b>51.1</b>	50.00	0	102.2		72.9	121	01/03/2017
1,1,2-Trichloroethane		5.0			<b>48.7</b>	50.00	0	97.3		80.8	111	01/03/2017
1,1-Dichloro-2-propanone		50.0			<b>137</b>	125.0	0	109.6		66.3	130	01/03/2017
1,1-Dichloroethane		5.0			<b>52.8</b>	50.00	0	105.7		79.4	114	01/03/2017
1,1-Dichloroethene		5.0			<b>51.7</b>	50.00	0	103.3		74.1	117	01/03/2017
1,1-Dichloropropene		5.0			<b>50.1</b>	50.00	0	100.2		81.7	116	01/03/2017
1,2,3-Trichlorobenzene		5.0			<b>50.8</b>	50.00	0	101.7		79.7	118	01/03/2017
1,2,3-Trichloropropane		5.0			<b>49.1</b>	50.00	0	98.3		77.3	112	01/03/2017
1,2,3-Trimethylbenzene		5.0			<b>48.4</b>	50.00	0	96.9		79.9	119	01/03/2017
1,2,4-Trichlorobenzene		5.0			<b>50.1</b>	50.00	0	100.3		79.3	118	01/03/2017
1,2,4-Trimethylbenzene		5.0			<b>48.1</b>	50.00	0	96.2		78.7	115	01/03/2017
1,2-Dibromo-3-chloropropane		5.0			<b>50.5</b>	50.00	0	100.9		76	122	01/03/2017
1,2-Dibromoethane		5.0			<b>50.5</b>	50.00	0	101.0		80.8	114	01/03/2017
1,2-Dichlorobenzene		5.0			<b>50.0</b>	50.00	0	99.9		78.3	112	01/03/2017
1,2-Dichloroethane		5.0			<b>53.2</b>	50.00	0	106.5		70.6	118	01/03/2017
1,2-Dichloropropane		5.0			<b>52.6</b>	50.00	0	105.3		79.6	113	01/03/2017
1,3,5-Trimethylbenzene		5.0			<b>47.9</b>	50.00	0	95.8		77.5	115	01/03/2017
1,3-Dichlorobenzene		5.0			<b>50.0</b>	50.00	0	100.0		78.6	117	01/03/2017
1,3-Dichloropropane		5.0			<b>46.4</b>	50.00	0	92.8		78.8	112	01/03/2017
1,4-Dichlorobenzene		5.0			<b>47.9</b>	50.00	0	95.9		77.8	114	01/03/2017
1-Chlorobutane		5.0			<b>49.2</b>	50.00	0	98.3		78.6	115	01/03/2017
2,2-Dichloropropane		5.0			<b>53.6</b>	50.00	0	107.2		74.9	130	01/03/2017
2-Butanone		25.0			<b>126</b>	125.0	0	100.7		70.7	136	01/03/2017
2-Chloroethyl vinyl ether		20.0			<b>53.4</b>	50.00	0	106.8		52.5	145	01/03/2017
2-Chlorotoluene		5.0			<b>48.2</b>	50.00	0	96.3		77.4	114	01/03/2017
2-Hexanone		25.0			<b>126</b>	125.0	0	100.7		73.3	125	01/03/2017
2-Nitropropane		50.0			<b>544</b>	500.0	0	108.7		67.3	139	01/03/2017
4-Chlorotoluene		5.0			<b>47.9</b>	50.00	0	95.8		78.3	115	01/03/2017
4-Methyl-2-pentanone		25.0			<b>123</b>	125.0	0	98.2		76.3	122	01/03/2017
Acetone		25.0			<b>123</b>	125.0	0	98.1		56.4	147	01/03/2017
Acetonitrile		50.0			<b>507</b>	500.0	0	101.3		59.3	129	01/03/2017
Acrolein		100			<b>254</b>	500.0	0	50.8		1	201	01/03/2017
Acrylonitrile		5.0			<b>53.7</b>	50.00	0	107.4		74.1	128	01/03/2017
Allyl chloride		5.0			<b>59.0</b>	50.00	0	117.9		71.5	123	01/03/2017
Benzene		2.0			<b>53.0</b>	50.00	0	106.0		80	114	01/03/2017
Bromobenzene		5.0			<b>47.4</b>	50.00	0	94.8		73.2	118	01/03/2017
Bromochloromethane		5.0			<b>49.6</b>	50.00	0	99.2		73.3	121	01/03/2017
Bromodichloromethane		5.0			<b>52.6</b>	50.00	0	105.3		81.6	121	01/03/2017
Bromoform		5.0			<b>58.8</b>	50.00	0	117.7		83.1	127	01/03/2017
Bromomethane		10.0			<b>47.7</b>	50.00	0	95.4		44.4	154	01/03/2017
Carbon disulfide		5.0			<b>50.2</b>	50.00	0	100.5		73.2	118	01/03/2017
Carbon tetrachloride		5.0			<b>53.7</b>	50.00	0	107.4		79.4	130	01/03/2017
Chlorobenzene		5.0			<b>50.8</b>	50.00	0	101.6		81.4	110	01/03/2017
Chloroethane		10.0			<b>38.5</b>	50.00	0	77.1		52.1	137	01/03/2017

**Client:** Civil & Environmental Consultants

**Work Order:** 16121661

**Client Project:** Huster Road 120-678

**Report Date:** 04-Jan-17

### SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	125802	SampType	LCS	Units	µg/L						Date Analyzed
SampID:	LCS-N170103A-1										
Analyses		RL	Qual		Result	Spike	SPK	Ref Val	%REC	Low Limit	High Limit
Chloroform		5.0			<b>48.8</b>	50.00	0	97.7		82.7	116
Chloromethane		10.0			<b>41.2</b>	50.00	0	82.4		48.2	144
Chloroprene		20.0			<b>52.5</b>	50.00	0	105.1		80.6	126
cis-1,2-Dichloroethene		5.0			<b>51.9</b>	50.00	0	103.8		78.2	116
cis-1,3-Dichloropropene		5.0			<b>53.3</b>	50.00	0	106.6		83	119
cis-1,4-Dichloro-2-butene		5.0			<b>51.3</b>	50.00	0	102.6		60.7	137
Cyclohexanone		50.0			<b>610</b>	500.0	0	122.0		54.2	145
Dibromochloromethane		5.0			<b>54.2</b>	50.00	0	108.5		81.2	121
Dibromomethane		5.0			<b>52.9</b>	50.00	0	105.8		78.3	118
Dichlorodifluoromethane		10.0			<b>44.6</b>	50.00	0	89.3		20.6	154
Ethyl acetate		10.0			<b>49.4</b>	50.00	0	98.8		73.1	116
Ethyl ether		5.0			<b>50.1</b>	50.00	0	100.1		75.2	109
Ethyl methacrylate		5.0			<b>50.7</b>	50.00	0	101.4		80.1	113
Ethylbenzene		5.0			<b>51.9</b>	50.00	0	103.8		77.2	113
Hexachlorobutadiene		5.0			<b>47.5</b>	50.00	0	95.0		77.3	123
Hexachloroethane		10.0			<b>50.8</b>	50.00	0	101.6		74.6	117
Iodomethane		5.0			<b>51.1</b>	50.00	0	102.2		61.3	140
Isopropylbenzene		5.0			<b>51.5</b>	50.00	0	102.9		81.3	114
m,p-Xylenes		5.0			<b>105</b>	100.0	0	105.1		79.6	113
Methacrylonitrile		10.0			<b>51.0</b>	50.00	0	102.0		77.2	125
Methyl Methacrylate		5.0			<b>53.5</b>	50.00	0	107.1		74.2	121
Methyl tert-butyl ether		2.0			<b>52.9</b>	50.00	0	105.7		76.8	117
Methylacrylate		10.0			<b>50.8</b>	50.00	0	101.7		78	124
Methylene chloride		5.0			<b>49.3</b>	50.00	0	98.5		74.1	114
Naphthalene		10.0			<b>49.5</b>	50.00	0	99.1		77.9	122
n-Butyl acetate		25.0			<b>49.0</b>	50.00	0	98.1		74	120
n-Butylbenzene		5.0			<b>48.7</b>	50.00	0	97.3		71.1	120
n-Heptane		20.0			<b>46.6</b>	50.00	0	93.1		67.4	129
n-Hexane		20.0			<b>50.4</b>	50.00	0	100.7		68.4	126
Nitrobenzene		50.0			<b>540</b>	500.0	0	108.0		37.9	181
n-Propylbenzene		5.0			<b>49.6</b>	50.00	0	99.2		74.6	118
o-Xylene		5.0			<b>51.9</b>	50.00	0	103.8		80.1	111
Pentachloroethane		20.0			<b>55.6</b>	50.00	0	111.3		78.8	117
p-Isopropyltoluene		5.0			<b>49.6</b>	50.00	0	99.3		77.6	118
Propionitrile		50.0			<b>569</b>	500.0	0	113.8		72.9	137
sec-Butylbenzene		5.0			<b>48.4</b>	50.00	0	96.7		74.5	119
Styrene		5.0			<b>55.3</b>	50.00	0	110.6		83.4	113
tert-Butylbenzene		5.0			<b>49.2</b>	50.00	0	98.5		75.9	114
Tetrachloroethene		5.0			<b>50.2</b>	50.00	0	100.4		72.5	125
Tetrahydrofuran		20.0			<b>45.8</b>	50.00	0	91.6		69.6	125
Toluene		5.0			<b>48.9</b>	50.00	0	97.9		77.5	113
trans-1,2-Dichloroethene		5.0			<b>53.5</b>	50.00	0	107.0		79	114
trans-1,3-Dichloropropene		5.0			<b>51.6</b>	50.00	0	103.3		78	115
trans-1,4-Dichloro-2-butene		10.0			<b>51.1</b>	50.00	0	102.2		63.3	128
Trichloroethene		5.0			<b>53.9</b>	50.00	0	107.9		84.4	114
Trichlorofluoromethane		5.0			<b>55.8</b>	50.00	0	111.5		75.2	132
Vinyl acetate		10.0			<b>54.2</b>	50.00	0	108.4		64.5	127



## Quality Control Results

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants

**Work Order:** 16121661

**Client Project:** Huster Road 120-678

**Report Date:** 04-Jan-17

### SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	125802	SampType	LCS	Units	µg/L						Date Analyzed
SampID:	LCS-N170103A-1										
Analyses		RL	Qual			Result	Spike	SPK Ref Val	%REC		
Vinyl chloride		2.0				42.7	50.00	0	85.3	58	134
Surr: 1,2-Dichloroethane-d4						51.5	50.00		103.0	74.7	129
Surr: 4-Bromofluorobenzene						46.7	50.00		93.4	86	119
Surr: Dibromofluoromethane						50.9	50.00		101.9	81.7	123
Surr: Toluene-d8						48.5	50.00		96.9	84.1	114

Batch	125802	SampType	LCSGD	Units	%REC					RPD Limit	0	Date Analyzed
SampID:	LCSGD-N170103A-1											
Analyses		RL	Qual			Result	Spike	SPK Ref Val	%REC			
Surr: 1,2-Dichloroethane-d4						51.7	50.00		103.5			01/03/2017
Surr: 4-Bromofluorobenzene						49.8	50.00		99.7			01/03/2017
Surr: Dibromofluoromethane						50.3	50.00		100.6			01/03/2017
Surr: Toluene-d8						51.4	50.00		102.9			01/03/2017

Batch	125802	SampType	LCSG	Units	%REC						Date Analyzed	
SampID:	LCSG-N170103A-1											
Analyses		RL	Qual			Result	Spike	SPK Ref Val	%REC			
Surr: 1,2-Dichloroethane-d4						48.6	50.00		97.1	74.7	129	01/03/2017
Surr: 4-Bromofluorobenzene						47.8	50.00		95.5	86	119	01/03/2017
Surr: Dibromofluoromethane						48.3	50.00		96.6	81.7	123	01/03/2017
Surr: Toluene-d8						49.5	50.00		98.9	84.3	114	01/03/2017

Batch	125802	SampType	MS	Units	µg/L						Date Analyzed	
SampID:	16121661-005AMS											
Analyses		RL	Qual			Result	Spike	SPK Ref Val	%REC			
1,1-Dichloroethene		5.0				48.8	50.00	0	97.7	35.7	136	01/03/2017
Benzene		2.0				48.1	50.00	0	96.2	62.5	121	01/03/2017
Chlorobenzene		5.0				47.8	50.00	0	95.5	78.6	114	01/03/2017
Ethylbenzene		5.0				50.7	50.00	0	101.4	74.4	130	01/03/2017
m,p-Xylenes		5.0				50.2	50.00	0	100.3	70.5	126	01/03/2017
o-Xylene		5.0				47.0	50.00	0	93.9	71.2	124	01/03/2017
Toluene		5.0				46.8	50.00	0	93.6	69.5	118	01/03/2017
Trichloroethene		5.0				51.2	50.00	0	102.5	69.4	117	01/03/2017
Surr: 1,2-Dichloroethane-d4						49.2	50.00		98.3	74.7	129	01/03/2017
Surr: 4-Bromofluorobenzene						49.6	50.00		99.2	86	119	01/03/2017
Surr: Dibromofluoromethane						48.7	50.00		97.3	81.7	123	01/03/2017
Surr: Toluene-d8						48.8	50.00		97.6	84.3	114	01/03/2017

**Client:** Civil & Environmental Consultants

**Work Order:** 16121661

**Client Project:** Huster Road 120-678

**Report Date:** 04-Jan-17

## SW-846 5030, 8260B, VOLATILE ORGANIC COMPOUNDS BY GC/MS

Batch	125802	SampType	MSD	Units	µg/L	RPD Limit 20						Date Analyzed	
SampID: 16121661-005AMSD													
Analyses		RL	Qual		Result	Spike	SPK	Ref	Val	%REC	RPD	Ref Val	%RPD
1,1-Dichloroethene		5.0			<b>49.0</b>	50.00	0		98.1		48.84	0.39	01/03/2017
Benzene		2.0			<b>49.0</b>	50.00	0		98.1		48.10	1.91	01/03/2017
Chlorobenzene		5.0			<b>48.1</b>	50.00	0		96.2		47.75	0.77	01/03/2017
Ethylbenzene		5.0			<b>51.1</b>	50.00	0		102.2		50.69	0.77	01/03/2017
m,p-Xylenes		5.0			<b>49.2</b>	50.00	0		98.3		50.17	2.01	01/03/2017
o-Xylene		5.0			<b>49.0</b>	50.00	0		97.9		46.95	4.19	01/03/2017
Toluene		5.0			<b>46.1</b>	50.00	0		92.1		46.79	1.55	01/03/2017
Trichloroethene		5.0			<b>52.6</b>	50.00	0		105.2		51.25	2.58	01/03/2017
Surr: 1,2-Dichloroethane-d4					<b>51.5</b>	50.00			103.0				01/03/2017
Surr: 4-Bromofluorobenzene					<b>50.4</b>	50.00			100.8				01/03/2017
Surr: Dibromofluoromethane					<b>50.7</b>	50.00			101.4				01/03/2017
Surr: Toluene-d8					<b>49.8</b>	50.00			99.5				01/03/2017

## Receiving Check List

<http://www.teklabinc.com/>

**Client:** Civil & Environmental Consultants

**Work Order:** 16121661

**Client Project:** Huster Road 120-678

**Report Date:** 04-Jan-17

**Carrier:** John Galbraith

**Received By:** AMD

**Completed by:**



**On:**

28-Dec-16

Laurie A. Langdon

**Reviewed by:**



**On:**

28-Dec-16

Elizabeth A. Hurley

**Pages to follow:** Chain of custody

Extra pages included

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>	Temp °C <b>8.42</b>
Type of thermal preservation?	None <input type="checkbox"/>	Ice <input checked="" type="checkbox"/>	Blue Ice <input type="checkbox"/>	Dry Ice <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		
Reported field parameters measured:	Field <input type="checkbox"/>	Lab <input type="checkbox"/>	NA <input checked="" type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>		

*When thermal preservation is required, samples are compliant with a temperature between 0.1°C - 6.0°C, or when samples are received on ice the same day as collected.*

Water – at least one vial per sample has zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials <input type="checkbox"/>
Water - TOX containers have zero headspace?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	No TOX containers <input checked="" type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	NA <input type="checkbox"/>
NPDES/CWA TCN interferences checked/treated in the field?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>

**Any No responses must be detailed below or on the COC.**

## **CHAIN OF CUSTODY**

pg. \_\_\_\_ of \_\_\_\_ Work order # 162160

TEKLAB, INC. 5445 Horseshoe Lake Road - Collinsville, IL 62234 - Phone: (618) 344-1004 - Fax: (618) 344-1005

Client:	Civil & Environmental Consultants																	
Address:	4848 Park 370 Blvd.																	
City / State / Zip	Hazelwood, MO 63042																	
Contact:	Monte Peake	Phone:	(314) 656-4566															
E-Mail:	mpeake@cecinc.com																	
Fax:																		
Are these samples known to be involved in litigation? If yes, a surcharge will apply <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																		
Are these samples known to be hazardous? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																		
Are there any required reporting limits to be met on the requested analysis? If yes, please provide limits in the comment section. <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No																		
<p><b>Project Name/Number</b> Huster Road 120-678</p>		<p><b>Sample Collector's Name</b> JG/KA</p>																
<p><b>Results Requested</b></p> <input type="checkbox"/> Standard <input type="checkbox"/> 1-2 Day (100% Surcharge) <input type="checkbox"/> Other <input type="checkbox"/> 3 Day (50% Surcharge)		<p><b>Billing Instructions</b></p>																
<p><b># and Type of Containers</b></p> <table border="1"> <tr> <td>UNPRES</td> <td>HNO3</td> <td>NaOH</td> <td>H2SO4</td> <td>HCl</td> <td>MeOH</td> <td>NaHSO4</td> <td>OTHER</td> </tr> </table>		UNPRES	HNO3	NaOH	H2SO4	HCl	MeOH	NaHSO4	OTHER	<p><b>MATRIX</b></p> <table border="1"> <tr> <td>Drinking Water</td> <td>Aqueous</td> <td>Soil</td> <td>Sludge</td> <td>Groundwater</td> <td>Special Waste</td> <td>VOC 8260</td> </tr> </table>		Drinking Water	Aqueous	Soil	Sludge	Groundwater	Special Waste	VOC 8260
UNPRES	HNO3	NaOH	H2SO4	HCl	MeOH	NaHSO4	OTHER											
Drinking Water	Aqueous	Soil	Sludge	Groundwater	Special Waste	VOC 8260												
<p><b>Lab Use Only</b></p>		<p><b>Date/Time Sampled</b></p>		<p><b>INDICATE ANALYSIS REQUESTED</b></p>														
001	CW 4	12/28/16 0912		2			X	X										
002	CW 5	12/28 0935		2			X	X										
003	CW 6	12/28 0952		2			X	X										
004	CW 9	12/28 0958		2			X	X										
005	CW5 DUP	12/28 0935		2			X	X										
<p><b>Relinquished By</b></p>		<p><b>Date/Time</b></p>		<p><b>Received By</b></p>		<p><b>Date/Time</b></p>												
John Galbraith		12/28/16 1535		Dina O'Callaghan		12/28/16 1535												

The individual signing this agreement on behalf of the client, acknowledges that he/she has read and understands the terms and conditions of this agreement, and that he/she has the authority to sign on behalf of the client.

BottleOrder: 28445



(DC)  
17/28/14